

#1743  
PATENT  
JW

Attorney Docket No. FORS-06449

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Cracauer, *et al*  
Serial No.: 09/930,535  
Filed: 08/15/2001  
Entitled: Polymer Synthesizer

Group No.: 1743  
Examiner: Nagpaul, Jyoti

INFORMATION DISCLOSURE  
STATEMENT TRANSMITTAL

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING UNDER 37 CFR § 1.8(a)

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to the: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on August 12, 2005.

By:

Mary Ellen Waite

Sir or Madam:

Enclosed please find an Information Disclosure Statement and Form PTO-1449, including copies of the references contained thereon, for filing in the U.S. Patent and Trademark Office.

A check for \$180.00 is also enclosed pursuant to 37 C.F.R. § 1.17(p) for filing this Information Disclosure Statement after three months as set forth in C.F.R. § 1.97(c).

The Commissioner is hereby authorized to charge any additional fee or credit overpayment to our Deposit Account No. 08-1290. An originally executed duplicate of this transmittal is enclosed for this purpose.

Dated: August 12, 2005

Mary Ann Brow  
Registration No. 42,363

08/16/2005 CNGUYEN2 00000015 09930535

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MEDLEN & CARROLL, LLP  
101 Howard Street, Suite 305  
San Francisco, California 94105  
608/218-6900



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re: Application of: **Raymond F. Cracauer**  
Serial No.: **09/930,535**  
Filed: **08/15/01**  
Entitled: **Polymer Synthesizer**

Group No.: **1743**  
Examiner: **J. Nagpaul**

## INFORMATION DISCLOSURE STATEMENT

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By: \_\_\_\_\_

Mary Ellen Waite

Sir or Madam:

The citations listed below, copies attached, may be material to the examination of the above-identified application, and are therefore submitted in compliance with the duty of disclosure defined in 37 C.F.R. §§ 1.56 and 1.97. The Examiner is requested to make these citations of official record in this application.

The following printed publications are referred to in the body of the specification:

- U.S. Patent No. 5,472,672;
- U.S. Patent No. 5,368,823;
- U.S. Patent No. 5,744,102;
- U.S. Patent No. 4,598,049;
- U.S. Patent No. 5,202,418;
- U.S. Patent No. 5,338,831;
- U.S. Patent No. 5,342,585;
- U.S. Patent No. 6,045,755;
- U.S. Patent No. 6,121,054; and
- PCT publication WO 01/41918

Applicants have become aware of the following printed publications which may be material to the examination of this application:

- U.S. Patent No. 6,280,950 ;
- U.S. Patent No. 6,270,730 ;
- U.S. Patent No. 6,264,891 ;
- U.S. Patent No. 6,126,904 ;
- U.S. Patent No. 6,171,555;
- U.S. Patent No. 6,150,102;
- U.S. Patent No. 6,096,276;
- U.S. Patent No. 5,792,430;
- U.S. Patent No. 5,770,157;
- U.S. Patent No. 5,580,523;
- U.S. Patent No. 5,443,791;
- U.S. Patent Publication No. 2001/0022950;
- U.S. Patent Publication No. 2001/0007644;
- U.S. Patent Publication No. 2001/0001035;
- U.S. Patent Publication No. 2001/0000723.
- U.S. Patent No. 3,917,455;
- U.S. Patent No. 4,353,989;
- U.S. Patent No. 4,483,964;
- U.S. Patent No. 4,517,338;
- U.S. Patent No. 4,598,045;
- U.S. Patent No. 4,744,037;
- U.S. Patent No. 4,837,159;
- U.S. Patent No. 5,053,454;
- U.S. Patent No. 5,112,575;
- U.S. Patent No. 5,262,530;
- U.S. Patent No. 5,298,259;
- U.S. Patent No. 5,437,979;
- U.S. Patent No. 5,462,748;
- U.S. Patent No. 5,466,608;
- U.S. Patent No. 5,503,805;
- U.S. Patent No. 5,762,881;
- U.S. Patent No. 5,789,162;

- U.S. Patent No. 5,874,554;
- U.S. Patent No. 5,885,837;
- U.S. Patent No. 5,981,733;
- U.S. Patent No. 6,057,424;
- U.S. Patent No. 6,165,717;
- U.S. Patent No. 6,175,006;
- U.S. Patent No. 6,177,554;
- U.S. Patent No. 6,225,061;
- U.S. Patent No. 6,329,210;
- U.S. Patent No. 4,401,796;
- U.S. Patent No. 4,689,405;
- U.S. Patent No. 4,734,363;
- U.S. Patent No. 4,950,745;
- U.S. Patent No. 5,047,524;
- U.S. Patent No. 5,112,962;
- U.S. Patent No. 5,132,418;
- U.S. Patent No. 5,149,798;
- U.S. Patent No. 5,264,562;
- U.S. Patent No. 5,264,566;
- U.S. Patent No. 5,324,831;
- U.S. Patent No. 5,514,789;
- U.S. Patent No. 5,518,651;
- U.S. Patent No. 5,548,076;
- U.S. Patent No. 5,616,700;
- U.S. Patent No. 5,620,852;
- U.S. Patent No. 5,639,873;
- U.S. Patent No. 5,646,267;
- U.S. Patent No. 5,652,358;
- U.S. Patent No. 5,668,266;
- U.S. Patent No. 5,668,268;
- U.S. Patent No. 5,700,919;
- U.S. Patent No. 5,703,218;
- U.S. Patent No. 5,703,223;
- U.S. Patent No. 5,723,599;
- U.S. Patent No. 5,726,300;

- U.S. Patent No. 5,736,626;
- U.S. Patent No. 5,789,162;
- U.S. Patent No. 5,821,058;
- U.S. Patent No. 5,840,841;
- U.S. Patent No. 6,313,284;
- U.S. Patent No. 5,541,314;
- U.S. Patent No. 5,053,454;
- U.S. Patent No. 6,432,365;
- U.S. Patent No. 6,238,627;
- U.S. Patent No. 5,702,672;
- U.S. Patent No. 3,986,835;
- U.S. Patent No. 6,485,692;
- U.S. Patent No. 5,935,527
- U.S. Patent No. 5,865,224
- U.S. Patent No. 5,153,319
- U.S. Patent No. 5,143,418
- U.S. Patent No. 4,458,066
- U.S. Patent No. 5,099,988
- WO 99/65602
- WO 00/56445
- WO91/13084;
- WO98/10857;
- WO98/36829;
- WO98/39099;
- WO98/57181; and
- User's Manual ABI 3900 High Throughput DNA Synthesizer, Applied Biosystems (2001)

This Information Disclosure Statement under 37 C.F.R. §§ 1.56 and 1.97 is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that any one or more of these citations constitutes prior art.

Dated: August 12, 2005



Mary Ann Brow  
Registration No. 42,363

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San Francisco, California 94105  
608/218-6900

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Attorney Docket No.: FORS-06449

Serial No.: 09/930,535

INFORMATION DISCLOSURE STATEMENT BY APPLICANT  
(Use Several Sheets If Necessary)Applicant: Raymond F. Cracauer *et al.*

(37 CFR § 1.98(b))

Filing Date: 8/15/01

Group Art Unit: 1743

## U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Serial / Patent Number	Issue Date	Applicant / Patentee	Class	Subclass	Filing Date
	1	5,472,672	12/5/95	Bennan	422	131	10/22/93
	2	5,368,823	11/29/94	McGraw <i>et al.</i>	422	1340	2/11/93
	3	5,935,527	8/10/99	Andrus <i>et al.</i>	422	131	4/29/93
	4	5,865,224	2/2/99	Ally <i>et al.</i>	141	130	12/20/96
	5	6,280,950	8/28/01	Lipshutz <i>et al.</i>	435	6	10/28/99
	6	6,270,730	8/7/01	McLuen <i>et al.</i>	422	131	6/16/98
	7	6,264,891	7/24/01	Heyneker <i>et al.</i>	422	64	5/18/99
	8	6,126,904	10/3/00	Zuellig <i>et al.</i>	422	130	9/5/97
	9	6,171,555	1/9/01	Cargill <i>et al.</i>	422	104	3/6/98
	10	6,150,102	11/21/00	Mills, Jr. <i>et al.</i>	435	6	5/15/98
	11	6,096,276	8/1/00	Laursen	422	103	8/14/91
	12	6,045,755	4/4/00	Lebl <i>et al.</i>	422	65	3/10/97
	13	5,792,430	8/11/98	Hamper	422	131	8/11/98
	14	5,770,157	6/23/98	Cargill <i>et al.</i>	422	99	9/18/96
	15	5,580,523	12/3/96	Bard	422	50	4/1/94
	16	5,443,791	8/22/95	Cathcart <i>et al.</i>	422	65	8/7/92
	17	6,329,210	12/11/01	Schleifer	436	518	10/29/99
	18	6,175,006	1/16/01	Andrus <i>et al.</i>	536	25.4	3/30/99
	19	6,057,424	5/2/00	Vail, III	530	333	3/24/97
	20	5,981,733	11/9/99	Gamble <i>et al.</i>	536	25.3	9/16/96
	21	5,885,837	3/23/99	Winkler <i>et al.</i>	435	91.1	10/23/96
	22	5,840,841	11/24/98	Zuckermann <i>et al.</i>	530	338	5/8/97
	23	5,541,314	7/30/96	McGraw <i>et al.</i>	536	25.31	8/2/94
	24	5,466,608	11/14/95	Lapluye <i>et al.</i>	436	86	9/7/93
	25	5,462,748	10/31/95	Lloyd <i>et al.</i>	424	484	1/14/94
	26	5,298,259	3/29/94	Lloyd <i>et al.</i>	424	486	11/5/91
	27	5,262,530	11/16/93	Andrus <i>et al.</i>	536	25.31	7/27/90
	28	5,153,319	10/6/92	Caruthers <i>et al.</i>	536	27	3/31/86
	29	5,143,418	7/21/92	Caruthers <i>et al.</i>	536	27	6/18/94
	30	5,112,575	5/12/91	Whitehouse <i>et al.</i>	422	116	2/14/91
	31	5,047,524	9/10/91	Andrus <i>et al.</i>	536	27	12/21/88
	32	4,744,037	5/10/88	Niina <i>et al.</i>	364	497	7/15/85
	33	4,517,338	5/14/85	Urdea <i>et al.</i>	525	54.11	7/13/84
	34	4,598,049	7/1/86	Zelinka <i>et al.</i>	435	287	8/31/83

Examiner:

Date Considered:

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449  
(Modified)U.S. Department of Commerce  
Patent and Trademark Office

Attorney Docket No.: FORS-06449

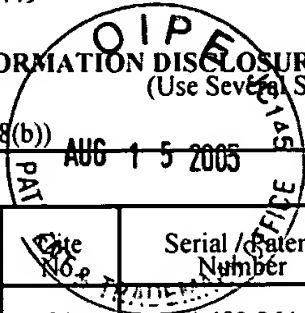
Serial No.: 09/930,535

INFORMATION DISCLOSURE STATEMENT BY APPLICANT  
(Use Several Sheets If Necessary)Applicant: Raymond F. Cracauer *et al.*

(37 CFR § 1.98(b))

Filing Date: 8/15/01

Group Art Unit: 1743



## U.S. PATENT DOCUMENTS

Examiner Initials	File No.	Serial / Patent Number	Issue Date	Applicant / Patentee	Class	Subclass	Filing Date
	35	4,483,964	11/20/84	Urdea <i>et al.</i>	525	54.11	6/20/83
	36	4,458,066	7/3/84	Caruthers <i>et al.</i>	536	27	3/24/81
	37	4,353,989	10/12/82	Bender <i>et al.</i>	435	287	1/19/81
	38	6,177,554	1/23/01	Woo <i>et al.</i>	536	23.1	6/5/95
	39	5,736,626	4/7/98	Mullah <i>et al.</i>	536	25.3	1/29/96
	40	5,723,599	3/3/98	Klem <i>et al.</i>	536	25.3	3/22/95
	41	5,703,218	12/30/97	Urdea <i>et al.</i>	536	23.1	4/13/95
	42	5,668,268	9/16/97	Tang <i>et al.</i>	536	25.3	11/27/95
	43	5,652,358	7/29/97	Pfleiderer <i>et al.</i>	536	25.3	11/3/94
	44	5,639,873	6/17/97	Barascut <i>et al.</i>	536	25.3	8/4/94
	45	5,518,651	5/21/96	Reddy <i>et al.</i>	252	193	6/8/94
	46	5,264,562	11/23/93	Matteucci	536	23.1	4/24/91
	47	4,950,745	8/21/90	Ishido <i>et al.</i>	536	58	6/27/88
	48	6,313,284 B1	11/6/01	Kwiatkowski <i>et al.</i>	536	25.3	3/30/00
	49	6,225,061 B1	5/1/01	Becker <i>et al.</i>	435	6	3/10/99
	50	6,165,717	12/26/00	Dower <i>et al.</i>	435	6	5/13/98
	51	5,874,554	2/23/99	Gamble <i>et al.</i>	536	22.1	12/13/96
	52	5,789,162	8/4/98	Dower <i>et al.</i>	435	6	6/7/95
	53	5,726,300	3/10/98	Klem <i>et al.</i>	536	25.34	6/15/94
	54	5,703,223	12/30/97	Wickstrom <i>et al.</i>	536	25.33	9/2/94
	55	5,700,919	12/23/97	Seliger <i>et al.</i>	536	22.1	1/10/95
	56	5,668,266	9/16/97	Ruth	536	25.3	5/12/95
	57	5,646,267	7/8/97	Stec <i>et al.</i>	536	25.33	6/5/95
	58	5,620,852	4/15/97	Lin <i>et al.</i>	435	6	10/31/94
	59	5,616,700	4/1/97	Reddy <i>et al.</i>	536	25.3	11/18/93
	60	5,548,076	8/20/96	Froehler <i>et al.</i>	536	25.34	8/13/93
	61	5,514,789	5/7/96	Kempe	536	25.4	4/21/94
	62	5,324,831	6/28/94	Marquez <i>et al.</i>	536	25.3	4/6/88
	63	5,264,566	11/23/93	Froehler <i>et al.</i>	536	25.34	4/26/90
	64	5,149,798;	9/22/92	Agrawal <i>et al.</i>	536	27	4/6/89
	65	4,734,363	3/29/88	Dattagupta <i>et al.</i>	435	91	11/27/984
	66	4,689,405	8/25/98	Frank <i>et al.</i>	536	27	1/4/84
	67	4,401,796	8/30/83	Itakura	535	340	4/30/81
	68	5,112,962	5/12/91	Letsinger <i>et al.</i>	536	27	11/9/90

Examiner:

Date Considered:

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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(37 CFR § 1.98(b)) AUG 15 2005

Filing Date: 8/15/01

Group Art Unit: 1743

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Examiner Initials	Cite No.	Serial / Patent Number	Issue Date	Applicant / Patentee	Class	Subclass	Filing Date
	69	3,917,455	11/4/75	Bak <i>et al.</i>	23	253	5/10/74
	70	4,837,159	6/6/89	Yamada	436	45	9/17/85
	71	5,503,805	4/2/96	Sugarman <i>et al.</i>	422	131	11/2/93
	72	5,437,979	8/1/95	Rampal <i>et al.</i>	435	6	8/24/92
	73	5,762,881	6/9/98	Harness <i>et al.</i>	422	132	10/29/96
	74	4,598,045	7/1/86	Masover <i>et al.</i>	435	34	2/19/85
	75	5,053,454	10/1/91	Judd	525	54.11	2/15/89
	76	6,432,365	8/13/02	Levin	422	100	4/14/00
	77	6,238,627	5/29/01	McGowan	422	130	8/26/98
	78	6,264,891	7/24/01	Heyneker	422	64	5/18/99
	79	5,702,672	12/30/97	DeWitt	422	131	10/10/95
	80	3,986,835	10/19/76	Takagi	422	71	5/13/75
	81	6,485,692	11/26/02	Freitag	422	130	12/4/98
	82	5,744,102	4/28/1998	Eadie	422	131	1/30/96
	83	5,202,418	4/13/1993	Lebl <i>et al.</i>	530	334	1/24/91
	84	5,099,988	3/31/92	Garran	206	223	3/20/91

## U.S. PATENT APPLICATION PUBLICATION

Examiner Initials	Cite No.	Publication Number	Publication Date	Applicant / Patentee	Class	Subclass	Filing Date
	85	2001/0022950	9/20/01	Hall <i>et al.</i>	422	131	5/18/01
	86	2001/0007644	7/12/01	McLuen <i>et al.</i>	422	131	12/19/00
	87	2001/0001035	5/10/01	McLuen <i>et al.</i>	422	100	12/19/00
	88	2001/0000723	5/3/01	McLuen <i>et al.</i>	422	100	12/19/00

## FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		Document Number	Publication Date	Country / Patent Office	Class	Subclass	Translation	
							Yes	No
	89	WO99/65602	23 Dec. 99					
	90	WO 00/56445	28 Sept. 00					
	91	WO 91/13084	5 Sept. 91					
	92	WO 98/36829	27 Aug. 98					
	93	WO 98/39099	11 Sept. 98					
	94	WO 98/57181	17 Dec. 98					
	95	WO 98/10857	19 Mar. 98					
	96	WO 01/41918						

## OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

97	User's Manual ABI 3900 High Throughput DNA Synthesizer, Applied Biosystems (2001)
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Examiner:

Date Considered:

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

**Complete if Known**

(Use as many sheets as necessary)

Sheet 14 of 4

Application Number	09/930,535
Filing Date	8/15/01
First Named Inventor	Cracauer
Art Unit	1743
Examiner Name	Nagpaul
Attorney Docket Number	FORs-06449

[illegible][illegible]

Date  
Considered

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

**If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.**